

PF-0479-2 DIV

<110> Bandman, Olga
Corley, Neil C.
Guegler, Karl J.
Baugh, Mariah R.

<120> HUMAN PROTEINASE MOLECULES

<130> PF-0479-2 DIV

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<141> Herewith

<150> US 09/802,633

<151> 2001-03-08

<150> US 09/032,523

<151> 1998-02-27

<160> 9

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<211> 248

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 456855

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Glu	Gly	Gly	Gly	Arg	Asn	Ile	Gly	Gly	Ile	Val	Gly	Gly	Ile	Val
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Asn	Phe	Ile	Ser	Glu	Ala	Ala	Ala	Ala	Gln	Tyr	Thr	Pro	Glu	Pro
			50						55					60
Pro	Pro	Thr	Gln	Gln	His	Phe	Thr	Ser	Val	Glu	Ala	Ser	Glu	Ser
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Glu	Glu	Val	Arg	Arg	Phe	Arg	Gln	Gln	Phe	Thr	Gln	Leu	Ala	Gly
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Pro	Asp	Met	Glu	Val	Gly	Ala	Thr	Asp	Leu	Met	Asn	Ile	Leu	Asn
			95						100					105
Lys	Val	Leu	Ser	Lys	His	Lys	Asp	Leu	Lys	Thr	Asp	Gly	Phe	Ser
			110						115					120
Leu	Asp	Thr	Cys	Arg	Ser	Ile	Val	Ser	Val	Met	Asp	Ser	Asp	Thr
			125						130					135
Thr	Gly	Lys	Leu	Gly	Phe	Glu	Glu	Phe	Lys	Tyr	Leu	Trp	Asn	Asn
			140						145					150
Ile	Lys	Lys	Trp	Gln	Cys	Val	Tyr	Lys	Gln	Tyr	Asp	Arg	Asp	His

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	155		160		165
Ser Gly Ser Leu	Gly Ser Ser Gln Leu	Arg Gly Ala Leu	Gln Ala		
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Ala Gly Phe Gln	Leu Asn Glu Gln Leu	Tyr Gln Met Ile	Val Arg		
	185		190		195
Arg Tyr Ala Asn	Glu Asp Gly Asp Met	Asp Phe Asn Asn	Phe Ile		
	200		205		210
Ser Cys Leu Val	Arg Leu Asp Ala Met	Phe Arg Ala Phe	Lys Ser		
	215		220		225
Leu Asp Arg Asp	Arg Asp Gly Leu Ile	Gln Val Ser Ile	Lys Glu		
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Trp Leu Gln Leu	Thr Met Tyr Ser				
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<211> 415

<212> PRT

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<223> Incyte ID No: 947429

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Phe Thr Cys Gly	Gly Ile Leu Thr	Gly Glu Ser Gly	Phe Ile Gly
	35	40	45
Ser Glu Gly Phe	Pro Gly Val Tyr	Pro Pro Asn Ser	Lys Cys Thr
	50	55	60
Trp Lys Ile Thr	Val Pro Glu Gly	Lys Val Val Val	Leu Asn Phe
	65	70	75
Arg Phe Ile Asp	Leu Glu Ser Asp	Asn Leu Cys Arg	Tyr Asp Phe
	80	85	90
Val Asp Val Tyr	Asn Gly His Ala	Asn Gly Gln Arg	Ile Gly Arg
	95	100	105
Phe Cys Gly Thr	Phe Arg Pro Gly	Ala Leu Val Ser	Ser Gly Asn
	110	115	120
Lys Met Met Val	Gln Met Ile Phe	Asp Ala Asn Thr	Ala Gly Asn
	125	130	135
Gly Phe Met Ala	Met Phe Ser Ala	Ala Glu Pro Asn	Glu Arg Gly
	140	145	150
Asp Gln Tyr Cys	Gly Gly Leu Leu	Asp Arg Pro Ser	Gly Ser Phe
	155	160	165
Lys Thr Pro Asn	Trp Pro Asp Arg	Asp Tyr Pro Ala	Gly Val Thr
	170	175	180
Cys Val Trp His	Ile Val Ala Pro	Lys Asn Gln Leu	Ile Glu Leu
	185	190	195
Lys Phe Glu Lys	Phe Asp Val Glu	Arg Asp Asn Tyr	Cys Arg Tyr
	200	205	210
Asp Tyr Val Ala	Val Phe Asn Gly	Gly Glu Val Asn	Asp Ala Arg
	215	220	225

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Arg	Ile	Gly	Lys	Tyr	Cys	Gly	Asp	Ser	Pro	Pro	Ala	Pro	Ile	Val
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Ser	Glu	Arg	Asn	Glu	Leu	Leu	Ile	Gln	Phe	Leu	Ser	Asp	Leu	Ser
				245					250					255
Leu	Thr	Ala	Asp	Gly	Phe	Ile	Gly	His	Tyr	Ile	Phe	Arg	Pro	Lys
				260					265					270
Lys	Leu	Pro	Thr	Thr	Thr	Glu	Gln	Pro	Val	Thr	Thr	Thr	Phe	Pro
				275					280					285
Val	Thr	Thr	Gly	Leu	Lys	Pro	Thr	Val	Ala	Leu	Cys	Gln	Gln	Lys
				290					295					300
Cys	Arg	Arg	Thr	Gly	Thr	Leu	Glu	Gly	Asn	Tyr	Cys	Ser	Ser	Asp
				305					310					315
Phe	Val	Leu	Ala	Gly	Thr	Val	Ile	Thr	Thr	Ile	Thr	Arg	Asp	Gly
				320					325					330
Ser	Leu	His	Ala	Thr	Val	Ser	Ile	Ile	Asn	Ile	Tyr	Lys	Glu	Gly
				335					340					345
Asn	Leu	Ala	Ile	Gln	Gln	Ala	Gly	Lys	Asn	Met	Ser	Ala	Arg	Leu
				350					355					360
Thr	Val	Val	Cys	Lys	Gln	Cys	Pro	Leu	Leu	Arg	Arg	Gly	Leu	Asn
				365					370					375
Tyr	Ile	Ile	Met	Gly	Gln	Val	Gly	Glu	Asp	Gly	Arg	Gly	Lys	Ile
				380					385					390
Met	Pro	Asn	Ser	Phe	Ile	Met	Met	Phe	Lys	Thr	Lys	Asn	Gln	Lys
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Leu	Leu	Asp	Ala	Leu	Lys	Asn	Lys	Gln	Cys					
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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1515165

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				20					25					30
Ser	Leu	Lys	Lys	Lys	Leu	Arg	Ala	Arg	Ser	Gln	Leu	Ser	Glu	Phe
				35					40					45
Trp	Lys	Ser	His	Asn	Leu	Asp	Met	Ile	Gln	Phe	Thr	Glu	Ser	Cys
				50					55					60
Ser	Met	Asp	Gln	Ser	Ala	Lys	Glu	Pro	Leu	Ile	Asn	Tyr	Leu	Asp
				65					70					75
Met	Glu	Tyr	Phe	Gly	Thr	Ile	Ser	Ile	Gly	Ser	Pro	Pro	Gln	Asn
				80					85					90
Phe	Thr	Val	Ile	Phe	Asp	Thr	Gly	Ser	Ser	Asn	Leu	Trp	Val	Pro
				95					100					105
Ser	Val	Tyr	Cys	Thr	Ser	Pro	Ala	Cys	Lys	Thr	His	Ser	Arg	Phe
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Gln	Pro	Ser	Gln	Ser	Ser	Thr	Tyr	Ser	Gln	Pro	Gly	Gln	Ser	Phe

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	125		130		135
Ser Ile Gln Tyr	Gly Thr Gly Ser Leu	Ser Gly Ile Ile Gly	Ala		
	140		145		150
Asp Gln Val Ser	Val Glu Gly Leu Thr	Val Val Gly Gln Gln	Phe		
	155		160		165
Gly Glu Ser Val	Thr Glu Pro Gly Gln	Thr Phe Val Asp Ala	Glu		
	170		175		180
Phe Asp Gly Ile	Leu Gly Leu Gly Tyr	Pro Ser Leu Ala Val	Gly		
	185		190		195
Gly Val Thr Pro	Val Phe Asp Asn Met	Met Ala Gln Asn Leu	Val		
	200		205		210
Asp Leu Pro Met	Phe Ser Val Tyr Met	Ser Ser Asn Pro Glu	Gly		
	215		220		225
Gly Ala Gly Ser	Glu Leu Ile Phe Gly	Gly Tyr Asp His Ser	His		
	230		235		240
Phe Ser Gly Ser	Leu Asn Trp Val Pro	Val Thr Lys Gln Ala	Tyr		
	245		250		255
Trp Gln Ile Ala	Leu Asp Asn Tyr Ala	Val Glu Cys Ala Asn	Leu		
	260		265		270
Asn Val Met Pro	Asp Val Thr Phe Thr	Ile Asn Gly Val Pro	Tyr		
	275		280		285
Thr Leu Ser Pro	Thr Ala Tyr Thr Leu	Leu Asp Phe Val Asp	Gly		
	290		295		300
Met Gln Phe Cys	Ser Ser Gly Phe Gln	Gly Leu Asp Ile His	Pro		
	305		310		315
Pro Ala Gly Pro	Leu Trp Ile Leu Gly	Asp Val Phe Ile Arg	Gln		
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Phe Tyr Ser Val	Phe Asp Arg Gly Asn	Asn Arg Val Gly Leu	Ala		
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<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 456855

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gaatttaagt atctgtggaa caacatcaag aaatggcagt gtgtttataa gcagtatgac 540
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ttccagctaa atgaacaact ttaccaaata attgtccgcc ggtatgctaa tgaagatgga 660
gatatggatt ttaacaattt catcagctgc ttgggtccgc tggatgccat gtttcgtgcc 720

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gactgaaaac cttgccaagc tgtacacagt tgctgatacc ctgtgcaaca gctctcattt 900
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 <223> Incyte ID No: 947429

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<221> misc_feature

<223> Incyte ID No: 1515165

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<210> 7

<211> 266

<212> PRT

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<400> 7

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Gly	Leu	Ile	Ser	Gly	Ala	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly
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				50					55						60
Gly	Gly	Val	Ile	Ser	Ala	Ile	Ser	Glu	Ala	Ala	Ala	Gln	Tyr	Asn	
				65					70						75
Pro	Glu	Pro	Pro	Pro	Pro	Arg	Thr	His	Tyr	Ser	Asn	Ile	Glu	Ala	
				80					85						90
Asn	Glu	Ser	Glu	Glu	Val	Arg	Gln	Phe	Arg	Arg	Leu	Phe	Ala	Gln	
				95					100						105
Leu	Ala	Gly	Asp	Asp	Met	Glu	Val	Ser	Ala	Thr	Glu	Leu	Met	Asn	
				110					115						120
Ile	Leu	Asn	Lys	Val	Val	Thr	Arg	His	Pro	Asp	Leu	Lys	Thr	Asp	
				125					130						135
Gly	Phe	Gly	Ile	Asp	Thr	Cys	Arg	Ser	Met	Val	Ala	Val	Met	Asp	
				140					145						150
Ser	Asp	Thr	Thr	Gly	Lys	Leu	Gly	Phe	Glu	Glu	Phe	Lys	Tyr	Leu	
				155					160						165
Trp	Asn	Asn	Ile	Lys	Lys	Trp	Gln	Ala	Ile	Tyr	Lys	Gln	Phe	Asp	
				170					175						180
Val	Asp	Arg	Ser	Gly	Thr	Ile	Gly	Ser	Ser	Glu	Leu	Pro	Gly	Ala	
				185					190						195
Phe	Glu	Ala	Ala	Gly	Phe	His	Leu	Asn	Glu	His	Leu	Tyr	Ser	Met	
				200					205						210
Ile	Ile	Arg	Arg	Tyr	Ser	Asp	Glu	Gly	Gly	Asn	Met	Asp	Phe	Asp	
				215					220						225
Asn	Phe	Ile	Ser	Cys	Leu	Val	Arg	Leu	Asp	Ala	Met	Phe	Arg	Ala	
				230					235						240
Phe	Lys	Ser	Leu	Asp	Lys	Asp	Gly	Thr	Gly	Gln	Ile	Gln	Val	Asn	
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Ile	Gln	Glu	Trp	Leu	Gln	Leu	Thr	Met	Tyr	Ser					
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<211> 468

<212> PRT

<213> Homo sapiens

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<221> misc_feature
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<223> Incyte ID No: 2589009

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				20					25					30
Arg	Pro	Val	Phe	Leu	Cys	Gly	Gly	Asp	Val	Thr	Gly	Glu	Ser	Gly
				35					40					45
Tyr	Val	Ala	Ser	Glu	Gly	Phe	Pro	Asn	Leu	Tyr	Pro	Pro	Asn	Lys
				50					55					60
Lys	Cys	Ile	Trp	Thr	Ile	Thr	Val	Pro	Glu	Gly	Gln	Thr	Val	Ser
				65					70					75
Leu	Ser	Phe	Arg	Val	Phe	Asp	Met	Glu	Leu	His	Pro	Ser	Cys	Arg

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				80					85				90	
Tyr	Asp	Ala	Leu	Glu	Val	Phe	Ala	Gly	Ser	Gly	Thr	Ser	Gly	Gln
				95					100					105
Arg	Leu	Gly	Arg	Phe	Cys	Gly	Thr	Phe	Arg	Pro	Ala	Pro	Val	Val
				110					115					120
Ala	Pro	Gly	Asn	Gln	Val	Thr	Leu	Arg	Met	Thr	Thr	Asp	Glu	Gly
				125					130					135
Thr	Gly	Gly	Arg	Gly	Phe	Leu	Leu	Trp	Tyr	Ser	Gly	Arg	Ala	Thr
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Ser	Gly	Thr	Glu	His	Gln	Phe	Cys	Gly	Gly	Arg	Met	Glu	Lys	Ala
				155					160					165
Gln	Gly	Thr	Leu	Thr	Thr	Pro	Asn	Trp	Pro	Glu	Ser	Asp	Tyr	Pro
				170					175					180
Pro	Gly	Ile	Ser	Cys	Ser	Trp	His	Ile	Ile	Ala	Pro	Ser	Asn	Gln
				185					190					195
Val	Ile	Met	Leu	Thr	Phe	Gly	Lys	Phe	Asp	Val	Glu	Pro	Asp	Thr
				200					205					210
Tyr	Cys	Arg	Tyr	Asp	Ser	Val	Ser	Val	Phe	Asn	Gly	Ala	Val	Ser
				215					220					225
Asp	Asp	Ser	Lys	Arg	Leu	Gly	Lys	Phe	Cys	Gly	Asp	Lys	Ala	Pro
				230					235					240
Ser	Pro	Ile	Ser	Ser	Glu	Gly	Asn	Glu	Leu	Leu	Val	Gln	Phe	Val
				245					250					255
Ser	Asp	Leu	Ser	Val	Thr	Ala	Asp	Gly	Phe	Ser	Ala	Ser	Tyr	Arg
				260					265					270
Thr	Leu	Pro	Arg	Asp	Ala	Val	Glu	Lys	Glu	Ser	Ala	Leu	Ser	Pro
				275					280					285
Gly	Glu	Asp	Val	Gln	Arg	Gly	Pro	Gln	Ser	Arg	Ser	Asp	Pro	Lys
				290					295					300
Thr	Gly	Thr	Gly	Pro	Lys	Val	Lys	Pro	Pro	Thr	Lys	Pro	Lys	Ser
				305					310					315
Gln	Pro	Ala	Glu	Thr	Pro	Glu	Ala	Ser	Pro	Ala	Thr	Gln	Ala	Thr
				320					325					330
Pro	Val	Ala	Pro	Ala	Ala	Pro	Ser	Ile	Thr	Cys	Pro	Lys	Gln	Tyr
				335					340					345
Lys	Arg	Ser	Gly	Thr	Leu	Gln	Ser	Asn	Phe	Cys	Ser	Ser	Ser	Leu
				350					355					360
Val	Val	Thr	Gly	Thr	Val	Lys	Thr	Met	Val	Arg	Gly	Pro	Gly	Glu
				365					370					375
Gly	Leu	Thr	Val	Thr	Val	Ser	Leu	Leu	Gly	Val	Tyr	Lys	Thr	Gly
				380					385					390
Gly	Leu	Asp	Leu	Pro	Ser	Pro	Pro	Ser	Gly	Thr	Ser	Leu	Lys	Leu
				395					400					405
Tyr	Val	Pro	Cys	Arg	Gln	Met	Pro	Pro	Met	Lys	Lys	Gly	Ala	Ser
				410					415					420
Tyr	Leu	Leu	Met	Gly	Gln	Val	Glu	Glu	Asn	Arg	Gly	Pro	Ile	Leu
				425					430					435
Pro	Pro	Glu	Ser	Phe	Val	Val	Leu	Tyr	Arg	Ser	Asn	Gln	Asp	Gln
				440					445					450
Ile	Leu	Asn	Asn	Leu	Ser	Lys	Arg	Lys	Cys	Pro	Ser	Gln	Pro	Arg
				455					460					465
Thr	Ala	Ala												

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<213> Homo sapiens

<220>
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Ser Leu Lys Lys Lys Leu Arg Ala Arg Ser Gln Leu Ser Glu Phe
35 40 45
Trp Lys Ser His Asn Leu Asp Met Ile Gln Phe Thr Glu Ser Cys
50 55 60
Ser Met Asp Gln Ser Ala Lys Glu Pro Leu Ile Asn Tyr Leu Asp
65 70 75
Met Glu Tyr Phe Gly Thr Ile Ser Ile Gly Ser Pro Pro Gln Asn
80 85 90
Phe Thr Val Ile Phe Asp Thr Gly Ser Ser Asn Leu Trp Val Pro
95 100 105
Ser Val Tyr Cys Thr Ser Pro Ala Cys Lys Thr His Ser Arg Phe
110 115 120
Gln Pro Ser Gln Ser Ser Thr Tyr Ser Gln Pro Gly Gln Ser Phe
125 130 135
Ser Ile Gln Tyr Gly Thr Gly Ser Leu Ser Gly Ile Ile Gly Ala
140 145 150
Asp Gln Val Ser Val Glu Gly Leu Thr Val Val Gly Gln Gln Phe
155 160 165
Gly Glu Ser Val Thr Glu Pro Gly Gln Thr Phe Val Asp Ala Glu
170 175 180
Phe Asp Gly Ile Leu Gly Leu Gly Tyr Pro Ser Leu Ala Val Gly
185 190 195
Gly Val Thr Pro Val Phe Asp Asn Met Met Ala Gln Asn Leu Val
200 205 210
Asp Leu Pro Met Phe Ser Val Tyr Met Ser Ser Asn Pro Glu Gly
215 220 225
Gly Ala Gly Ser Glu Leu Ile Phe Gly Gly Tyr Asp His Ser His
230 235 240
Phe Ser Gly Ser Leu Asn Trp Val Pro Val Thr Lys Gln Ala Tyr
245 250 255
Trp Gln Ile Ala Leu Asp Asn Ile Gln Val Gly Gly Thr Val Met
260 265 270
Phe Cys Ser Glu Gly Cys Gln Ala Ile Val Asp Thr Gly Thr Ser
275 280 285
Leu Ile Thr Gly Pro Ser Asp Lys Ile Lys Gln Leu Gln Asn Ala
290 295 300
Ile Gly Ala Ala Pro Val Asp Gly Glu Tyr Ala Val Glu Cys Ala
305 310 315
Asn Leu Asn Val Met Pro Asp Val Thr Phe Thr Ile Asn Gly Val
320 325 330

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Pro	Tyr	Thr	Leu	Ser	Pro	Thr	Ala	Tyr	Thr	Leu	Leu	Asp	Phe	Val	
				335					340					345	
Asp	Gly	Met	Gln	Phe	Cys	Ser	Ser	Gly	Phe	Gln	Gly	Leu	Asp	Ile	
				350					355					360	
His	Pro	Pro	Ala	Gly	Pro	Leu	Trp	Ile	Leu	Gly	Asp	Val	Phe	Ile	
				365					370					375	
Arg	Gln	Phe	Tyr	Ser	Val	Phe	Asp	Arg	Gly	Asn	Asn	Arg	Val	Gly	
				380					385					390	
Leu	Ala	Pro	Ala	Val	Pro										
				395											